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1. [Commutation relations and Markov chains](#)

Jason Fulman.

Probability Theory and Related Fields; Heidelberg (0178-8051)

May 2009. Vol.144,Iss.1-2;p.99

Source: [ProQuest Dissertations and Theses](#)

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2. [Adapting SVM for data sparseness and imbalance: a case study in information extraction](#)

YAOYONG LI; KALINA BONTCHEVA; HAMISH CUNNINGHAM.

Natural Language Engineering; Cambridge (1351-3249)

Apr 2009. Vol.15,Iss.2;p.241

Source: [ProQuest Dissertations and Theses](#)

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3. [Implementation of scatter search for multi-objective optimization: a comparative study](#)

R Baños; C Gil; J Reca; J Martínez.

Computational Optimization and Applications; Boston (0926-6003)

Apr 2009. Vol.42,Iss.3;p.421

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1 [Forecasting market prices in a supply chain game](#)

 [Christopher Kleintveld, Jason Miller, Patrick R. Jordan, Michael P. Wellman](#)
May 2007 **AAMAS '07**: Proceedings of the 6th international joint conference on Autonomous agents and multiagent systems

Publisher: ACM


Full text available:  [Pdf](#) (337.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 157, Citation Count: 0

Future market conditions can be a pivotal factor in making business decisions. We present and evaluate methods used by our agent, Deep Maize, to forecast market prices in the Trading Agent Competition Supply Chain Management Game. As a guiding principle ...

Keywords: forecasting, machine learning, markets, price prediction, supply chain management, trading agent competition

2 [Applying data mining in investigating money laundering crimes](#)

 [Zhongfei \(Mark\) Zhang, John J. Salerno, Philip S. Yu](#)
August 2003 **KDD '03**: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM


Full text available:  [Pdf](#) (325.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 226, Citation Count: 1


In this paper, we study the problem of applying data mining to facilitate the investigation of money laundering crimes (MLCs). We have identified a new paradigm of problems --- that of automatic community generation based on uni-party data, the data ...

Keywords: CORAL, Link Discovery based on Correlation Analysis (LDCA), MLC Group Models, Money Laundering Crimes (MLCs), bi-party data, clustering, community generation, histogram, timeline analysis, uni-party data

3 [Distance browsing in spatial databases](#)

 [Gisli R. Hjaltason, Hanan Samet](#)
June 1999 **Transactions on Database Systems (TODS)**, Volume 24 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (460.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 220, Citation Count: 113

We compare two different techniques for browsing through a collection of spatial objects stored in an R-tree spatial data structure on the basis of their distances from

ADVANCED SEARCH

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Found 1,883 of 1,568

Keywords: R-trees, distance browsing, hierarchical spatial data structures, nearest neighbors, ranking

4 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes


Publisher: ACM

Full text available:  Pdf (63.03 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 214, Downloads (12 Months): 1530, Citation Count: 7

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

5 The elements of nature: interactive and realistic techniques

 Oliver Dausen, David S. Ebert, Ron Fedkiw, E. Kenton Musgrave, Przemysław Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes


Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 198, Downloads (12 Months): 1401, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

6 Communications of the ACM: Volume 51 Issue 1


 January 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (5.97 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 746, Downloads (12 Months): 5083, Citation Count: 0

7 Level set and PDE methods for computer graphics

 David Green, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes


Publisher: ACM

Full text available:  Pdf (17.07 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 145, Downloads (12 Months): 1055, Citation Count: 4


Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the ...

8 Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases

 Christian Böhm, Stefan Berchtold, Daniel A. Keim

September 2001 **Computing Surveys (CSUR)** , Volume 33 Issue 3

Publisher: ACM


Full text available:  [Pdf](#) (1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 522, Citation Count: 93

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

9 [Collision detection and proximity queries](#)

 [Sunil Hadap, Dave Eberle, Pascal Vollen, Ming C. Lin, Stephane Redon, Christer Ericson](#)
August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes


Publisher: ACM

Full text available:  [Pdf](#) (11.22 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 596, Citation Count: 3

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate ...

10 [Real-time shading](#)

 [Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rest](#)

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes


Publisher: ACM

Full text available:  [Pdf](#) (7.39 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 85, Downloads (12 Months): 714, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

11 [Recreational computer graphics](#)

 [Andrew Glassner](#)

July 2006 **SIGGRAPH '06**: SIGGRAPH 2006 Courses


Publisher: ACM

Full text available:  [Pdf](#) (13.82 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 209, Citation Count: 0

Computer graphics isn't just a bunch of algorithms and programs: it's a gymnasium for the visual imagination, and a tool for investigating the world around us. Graphics can help us understand nature, invent new kinds of patterns and shapes, build up ...

12 [Navigating through triangle meshes implemented as linear quadtrees](#)

 [Michael Lee, Hanan Samet](#)

April 2000 **Transactions on Graphics (TOG)**, Volume 19 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (235.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 99, Citation Count: 1



Techniques are presented for navigating between adjacent triangles of greater or equal size in a hierarchical triangle mesh where the triangles are obtained by a recursive quadtree-like subdivision of the underlying space into four equilateral triangles. ...

Keywords: data structures, finite element analysis, hierarchical methods, neighbor finding, ray tracing, spherical modeling, triangle meshes

13 [Communications of the ACM: Volume 51 Issue 10](#)

October 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.16 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 575, Downloads (12 Months): 2432, Citation Count: 0



14 [Exploiting perception in high-fidelity virtual environments](#)

Additional presentations from the 24th course are available on the citation page

[Mashhuda Glencross](#), [Alan G. Chalmers](#), [Ming C. Lin](#), [Miguel A. Otaduy](#), [Diego Gutierrez](#)
July 2006 **SIGGRAPH '06: SIGGRAPH 2006 Courses**

Publisher: ACM

Additional Information: [full citation](#), [appendices and](#)

Full text available:  [Mov](#) (68:6 MIN),  [Pdf](#) (5.07 MB)


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Bibliometrics: Downloads (6 Weeks): 179, Downloads (12 Months): 1536, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...



Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

15 [Computing curricula 2001](#)

 [CORPORATE The Joint Task Force on Computing Curricula](#)


September 2001 **Journal on Educational Resources in Computing (JERIC)** , Volume 1 Issue 3es

Publisher: ACM

Full text available:  [Html](#) (2.78 KB),  [Pdf](#) (613.63 KB) Additional Information: [full citation](#), [references](#),
[cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 122, Downloads (12 Months): 1329, Citation Count: 25

16 [A cost model for query processing in high dimensional data spaces](#)

 [Christian Böhm](#)

June 2000 **Transactions on Database Systems (TODS)** , Volume 25 Issue 2


Publisher: ACM

Full text available:  [Pdf](#) (362.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 102, Citation Count: 19

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research topic in multimedia databases is similarity search in large data ...

17 [Real-time volume graphics](#)

 [Klaus Engel](#), [Markus Hadwiger](#), [Joe M. Kniss](#), [Aaron E. Lefohn](#), [Christof Fleck Salama](#), [Daniel Weiskopf](#)

August 2004 **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes


Publisher: ACM

Full text available:  [Pdf](#) (7.63 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 591, Citation Count: 2

The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering volume data in scientific visualization, the interest in applying these techniques ...

18 [Geometric modeling based on polygonal meshes](#)

 **Video files associated with this course are available from the citation page**

[Mario Botsch](#), [Mark Pauly](#), [Leif Kobbelt](#), [Pierre Alliez](#), [Bruno Lévy](#), [Stephan Bischoff](#), [Christian Rössl](#)

August 2007 **SIGGRAPH '07**: SIGGRAPH 2007 courses


Publisher: ACM

Full text available:  [Pdf](#) (44.53 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 358, Downloads (12 Months): 1387, Citation Count: 0


In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative ...

19 [Object-based and image-based object representations](#)

 [Hanan Samet](#)

June 2004 **Computing Surveys (CSUR)**, Volume 36 Issue 2

Publisher: ACM


Full text available:  [Pdf](#) (1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 367, Citation Count: 0

An overview is presented of object-based and image-based representations of objects by their interiors. The representations are distinguished by the manner in which they can be used to answer two fundamental queries in database applications: (1) Feature ...


Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), image space, location query, object space, octrees, pyramids, quadrees, space-filling curves, spatial databases

20 [Location-based spatial queries](#)

 [Jun Zhang](#), [Manli Zhu](#), [Dimitris Papadias](#), [Yufei Tao](#), [Dik Lun Lee](#)

June 2003 **SIGMOD '03**: Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  [Pdf](#) (503.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 110, Citation Count: 36

In this paper we propose an approach that enables mobile clients to determine the validity of previous queries based on their current locations. In order to make this possible, the server returns in addition to the query result, a *validity region* ...

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Distance to nearest neighbor as a measure of spatial relationships in populations

PJ Clark, FC Evans - *Ecology*, 1954 - jstor.org

... October, 1954 **NEAREST NEIGHBOR AS A MEASURE OF SPATIAL RELATIONSHIPS** ... r, from each **individual to its nearest neighbor** ... may be tested by a **one-way** analysis of ...

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Data structures and algorithms for nearest neighbor search in general metric spaces - ► [kfupm.edu.sa](#)

[PDF]

PN Yiariolos - *Proceedings of the fourth annual ACM-SIAM Symposium on* ..., 1993 - portal.acm.org

... **One** useful consequence of this behavior is given by ... that SD is divided in **this way** into left ... databases) may be patho- logical for **nearest neighbor** search, we ...

Cited by 383 - [Related articles](#) - [Web Search](#) - [All 13 versions](#)

Nearest neighbor pattern classification

T Cover, P Hart - *IEEE Transactions on Information Theory*, 1967 - [iseeexplore.ieee.org](#)

... x the conditional loss is minimum when the **individual** is assigned ... 1. Admissibility of **nearest neighbor** rule. ... in classifying a given observation x into **one of M** ...

Cited by 2104 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] ► Geometry for the selfish herd

WD Hamilton - *Journal of theoretical Biology*, 1971 - [ecfs.org](#)

... beast will want to move in a **way** that will ... organisms that jump.) Now suppose that **one** cow alone ... maximum decrease of danger, and when the **nearest neighbor** is a ...

Cited by 1175 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 7 versions](#)

[PDF] ► Coordination of groups of mobile autonomous agents using nearest neighbor rules

A Jadbabae, J Lin, AS Morse - *IEEE Transactions on Automatic Control*, 2003 - [seas.upenn.edu](#)

... determined interactions between **individual** self-propelled spots ... The **one** feature which sharply distinguishes previous ... Chang- ing **nearest neighbor** sets is an ...

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[BOOK] Methods of multivariate analysis - ► [spbu.ru](#) [PDF]

AC Rencher, MG Schimek - 1995 - [doi.wiley.com](#)

... 455 14.3.2 Single Linkage (**Nearest Neighbor**), 456 14.3 ... achieve this kind of seasoning in a **one-semester** class ... proof provides insights obtainable in no other **way**. ...

Cited by 733 - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 11 versions](#)

Surprises on the way from one-to two-dimensional quantum magnets: The ladder materials

E Dagotto, TM Rice - *Science*, 1996 - [sciencemag.org](#)

... Surprises on the **Way from One- to Two** ... Surprisingly, this crossover be- tween **one** and two dimensions is ... With isotropic and predominantly **nearest-neighbor** coupling ...

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Locally adaptive metric nearest-neighbor classification - ► [psu.edu](#) [PDF]

C Domeniconi, J Peng, D Gunopulos - *IEEE Transactions on Pattern Analysis and Machine* ..., 2002 - [iseeexplore.ieee.org](#)

... feature relevance along each **individual** dimension, **one** at a ... **One way** to decorrelate association among the ... The adaptive metric **nearest-neighbor** algorithm (ADAMENN ...

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P Heckbert - *ACM SIGGRAPH Computer Graphics*, 1982 - portal.acm.org

... **One way** to compute only the needed cells is to create them dynamically, the first time they are used. When the function p is asked for the **nearest neighbor** of ...

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[Self-organized fish schools: an examination of emergent properties](#) - [► northwestern.edu](#) [PDF]

JK Parrish, SV Viscido, D Grünbaum - *Biological Bulletin*, 2002 - [jstor.org](#)

... sory contact between members in such as **way** as to ... school charac- teristics in their simulations with **one** or more ... NND Mean linear distance to **nearest neighbor** ...

[Cited by 124](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 12 versions](#)

Key authors: [S Geman](#) - [P Clark](#) - [T Cover](#) - [W Hamilton](#) - [A Jadbabaie](#)

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one way nearest neighbor individual

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Minimization of **nearest neighbor** classifiers based on **individual** ... One method for solving this problem is to find a P satisfying the ... The common problem in these algorithms is that there is no efficient way to determine $M(P)$

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Nearest-Neighbor Distribution of Interacting Biological Entities

One way to characterize a spatial pattern is by its **nearest-neighbor** distribution (Hertz, ... **nearest neighbor** for each **individual**, if j is the **nearest** ...

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by G Zou - 1995 - [Cited by 10](#) - [Related articles](#) - [All 6 versions](#)
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Individual evolutionary algorithm and its application to learning ...

nearest neighbor classifier (NNC). It is a **one-hidden-layer** network as shown ... A common problem in these algorithms is that there is no efficient way to ...

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[PS] The Utility of Feature Weighting in Nearest-Neighbor Algorithms

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Inspection of **individual** runs revealed that, when told to use a single ... **one non-zero weight** and simple **nearest neighbor** on domain W, which we had ... One way of understanding the behavior of algorithms is to decompose the error ...

cil.stanford.edu/~tangley/papers/diet.ecm97.ps - [Similar pages](#) -
by R Kohavi - 1997 - [Cited by 70](#) - [Related articles](#)

[PDF] k Nearest Neighbor Classification across Multiple Private Databases

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databases using a privacy preserving k **Nearest Neighbor** (kNN) classifier. Categories and Subject Descriptors: ... **individual** databases. Given a query point x, we should ... **one-way** function so that nodes do not know the exact posi- ...

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nearest neighbor method and that accuracy is not impacted by the approximate method. ... Shingles are **one way** to determine if a new web ...

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Efficient Search for Approximate Nearest Neighbor in High ...

165 Approximate **nearest neighbors**: Towards removing the curse of.. - Indyk, Motwani 149
A hard-core predicate for all **one-way** functions (context) ...

citeseer.ist.psu.edu/kushilevitz08efficient.html - [Similar pages](#) -
by E Kushilevitz - 1998 - [Cited by 243](#) - [Related articles](#) - [All 30 versions](#)

Genetic feature selection combined with composite fuzzy nearest ...

One way is to minimize the classification error rate. This however will not necessarily ... classifier, which is a minimal **nearest neighbor** classifier [15], storing only one ... ward feature selection, the **individual** points by using ...

ieeexplore.ieee.org/iel5/7099/19155/00886392.pdf?arnumber=886392 - [Similar pages](#) -
by S Yu - 2000 - [Cited by 5](#) - [Related articles](#)

<i>k</i>-Nearest Neighbors

One appropriate way to look at the number of nearest neighbors k is to think of it as a smoothing parameter. For any given problem, a small value of k will ...

statsoft.nl/uk/textbook/stknn.html - Similar pages -


Behavioral Ecology -- Hilton et al. 10 (4): 391

This result, along with the result that increased nearest neighbor distance ... The results strongly suggest that there is significant individual fly immediately after far neighbors took off (Kruskal-Wallis one-way ANOVA, χ^2) ...

beheco.oxfordjournals.org/cgi/content/full/10/4/391 - Similar pages -

by GM Hilton - 1999 - Cited by 43 - Related articles - All 3 versions

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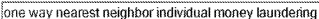
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by ZM Zhang - Cited by 10 - Related articles - All 9 versions

by ZM Zhang - 2003 - Cited by 10 - Related articles



by Z Gao - Related articles - All 2 versions

by DJ Hand - 2003 - Cited by 10 - Related articles - All 8 versions




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arrnumber=4041296&arSt... - Similar pages -

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systems which intend to identify fraud and **money laundering** by discovering [8] Deals with the problem the general relationship of **one** multi- ... It is accepted that an outlier is an object if it is in some **way** "significantly estimation scheme. This concept is derived from the **k nearest neighbor** counting. ...
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... individual related to the money laundering case being ... financial transaction of an individual such as ... else due to the one way nearest neighbor parsing principle ...

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 Zhonglei (Mark) Zhang, John J. Salerno, Philip S. Yu

August 2003 **KDD '03**: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

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 Gang Luo, Chungqiang Tang, Ying-li Tian

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 Jennifer J. Xu, Hsinchun Chen

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